

**CLAIMS**

What is claimed is:

- 5    1. A method for developing GPS-related user applications,  
said method comprising:

acquiring a GPS reading for a location at which a GPS  
receiver is located;

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determining a desired geometric shape to be related to said  
GPS reading; and

- applying said geometric shape to said GPS reading for  
15 defining an area having said geometric shape, said area  
having a selectable relationship to said GPS reading.

2. The method as set forth in claim 1 wherein said geometric  
shape is determined by:

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acquiring a plurality of said GPS readings;

converting said GPS readings to location points; and

- 25 connecting said location points together to provide said  
geometric shape.

3. The method as set forth in claim 1 and further including:

- 30 storing in memory a plurality of algorithms for generating  
said geometric shapes; and

selecting one of said geometric shapes for said applying.

4. The method as set forth in claim 3 wherein one of said plurality of geometric shapes is a circle.

5 5. The method as set forth in claim 4 wherein said GPS reading is a center point for said circle.

6. The method as set forth in claim 5 wherein a diameter related value for said circle is input by a user.

10 7. The method as set forth in claim 5 wherein a diameter related value for said circle is input by taking GPS readings for two locations, said diameter being defined by a line joining said two locations.

15 8. The method as set forth in claim 3 wherein one of said geometric shapes is a polygon.

9. The method as set forth in claim 3 wherein one of said geometric shapes is a triangle.

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10. The method as set forth in claim 3 wherein one of said geometric shapes is a square.

25 11. The method as set forth in claim 1 wherein said method is accomplished by an execution of an application development program, said application development program including code for creating predetermined areas.

30 12. The method as set forth in claim 1 wherein said method is accomplished by an execution of an application development program, said application development program including code for defining string and integer variables.

13. The method as set forth in claim 1 wherein said method is accomplished by an execution of an application development program, said application development program including code for defining verbs useful in writing said user applications, said verbs including keywords used in conditional statements.

14. The method as set forth in claim 13 wherein said verbs include a keyword for triggering a throwing of an event when a user enters said defined area.

15. The method as set forth in claim 13 wherein said verbs include a keyword for triggering a throwing of an event when a user leaves said defined area.

16. The method as set forth in claim 13 wherein said verbs include a keyword for triggering a throwing of an event when a user is presently within said defined area.

17. The method as set forth in claim 13 wherein said application development program further includes code for defining prepositions which may be attached to said verbs.

18. The method as set forth in claim 17 wherein said prepositions include code for narrowing a referenced condition to be for a specified amount of time.

19. The method as set forth in claim 17 wherein said prepositions include code for narrowing a condition to when a user is entering or leaving said defined area from a certain direction.

20. The method as set forth in claim 17 wherein said prepositions include code for narrowing a referenced condition to apply only to a user in movement.

5 21. The method as set forth in claim 17 wherein said prepositions include code for expanding a periphery of one of said areas by a selectable amount.

10 22. The method as set forth in claim 1 wherein said method is accomplished by an execution of an application development program, said application development program including code for accomplishing a predetermined processing action.

15 23. The method as set forth in claim 22 wherein said predetermined processing action is a launching of a browser application.

20 24. The method as set forth in claim 22 wherein said predetermined processing action is a playing of an audio file.

25 25. The method as set forth in claim 22 wherein said predetermined processing action is a printing of a message.

26. A GPS-related user application device comprising:

30 a GPS receiver selectively operable for obtaining present location GPS readings for locations at which said device is located;

bus means connected to said GPS receiver; and

processing means connected to said bus means, said application device being selectively operable for determining a relationship between said present location readings and predefined stored areas, and providing an  
5 output related to said relationship.

27. The device as set forth in claim 26 wherein said output is a playing of an audio file on said device.

10 28. The device as set forth in claim 27 wherein said audio file is an informational audio file operable to verbalize information to said user regarding a present location of said user relative to one or more of said areas.

15 29. The device as set forth in claim 27 wherein said audio file is a music file.

30. The device as set forth in claim 26 and further including a display device coupled to said bus means and  
20 said output is an informational display presented on said display device.

31. The device as set forth in claim 26 wherein said output is effective to cause a printing of a file.  
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32. The device as set forth in claim 26 wherein said output is effective to cause an opening of a browser application on said device.

30 33. A medium programmed to provide operating signals when said medium is read by a compatible reading device, said operating signals being effective for enabling development of GPS-related user applications, said operating signals being further effective for:

acquiring a GPS reading for a location at which a GPS receiver is located;

- 5 determining a desired geometric shape to be related to said GPS reading; and

applying said geometric shape to said GPS reading for  
defining an area having said geometric shape, said area  
10 having a selectable relationship to said GPS reading.

34. A medium programmed to provide operating signals when  
said medium is read by a compatible reading device in an  
application device, said operating signals being effective  
15 for enabling location responsive programmed output on said  
application device, said operating signals being further  
effective for:

determining a present location of said application device;  
20 relating said present location to one or more predefined  
geometrically shaped areas stored in memory; and

causing an output from said application device depending  
25 upon said location of said application device relative to  
said predefined geometrically shaped areas.